WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

MARGINAL

NORMAL



LIEBHERR LR636 018081-1275

Component Diesel Engine

{not provided} (--- GAL)

RECOMMENDAT	

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0278845		
Sample Date		Client Info		15 Feb 2024		
Machine Age	hrs	Client Info		5913		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				MARGINAL		
Iron	ppm	ASTM D5185(m)	>100	26		
Chromium	ppm	ASTM D5185(m)	>5	4		
N.P. I. I		AOTH DELOC	_	ا م		

WEAR

All component wear rates are normal.

Sample Status				MARGINAL	
Iron	ppm	ASTM D5185(m)	>100	26	
Chromium	ppm	ASTM D5185(m)	>5	4	
Nickel	ppm	ASTM D5185(m)	>5	<1	
Titanium	ppm	ASTM D5185(m)		0	
Silver	ppm	ASTM D5185(m)	>3	0	
Aluminum	ppm	ASTM D5185(m)	>15	7	
Lead	ppm	ASTM D5185(m)	>30	1	
Copper	ppm	ASTM D5185(m)	>125	5	
Tin	ppm	ASTM D5185(m)	>5	<1	
Vanadium	ppm	ASTM D5185(m)		0	
White Metal	scalar	Visual*	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>60	23	
Potassium	ppm	ASTM D5185(m)	>20	3	

CONTAMINATION

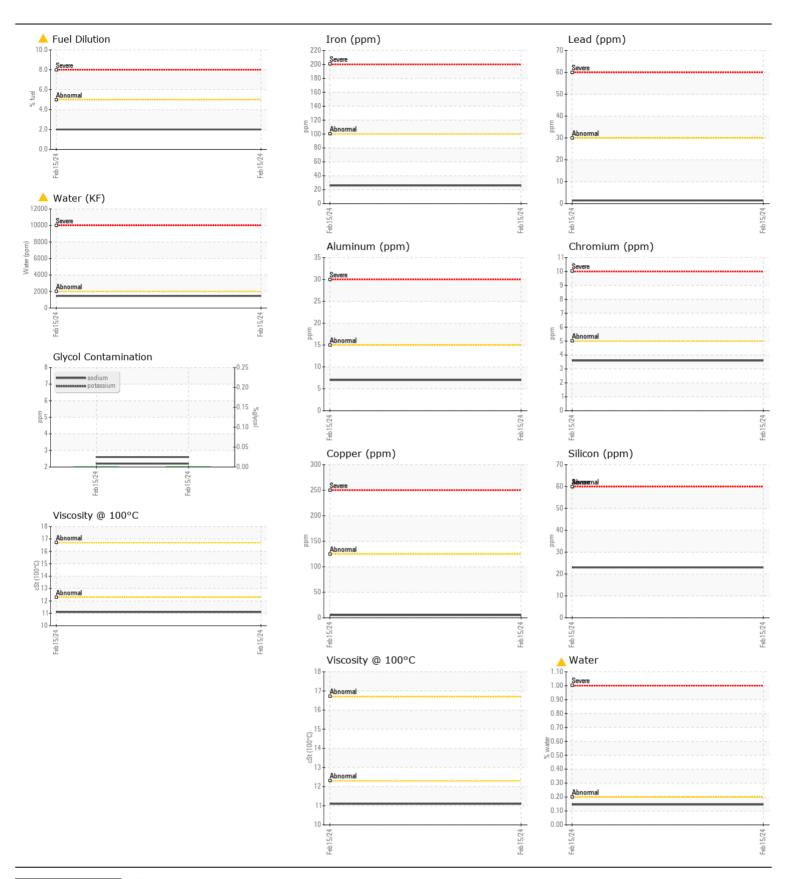
Light fuel dilution occurring. There is a trace of moisture present in the oil. Test for glycol is negative. No other contaminants were detected in the oil.

Silicon	nnm	ASTM D5185(m)	>60	23	
SIIICOH	ppm	ASTIVI DOTOS(III)	>00	_	
Potassium	ppm	ASTM D5185(m)	>20	3	
Fuel	%	ASTM D7593*	>5	<u>^</u> 2	
Water	%	ASTM D6304*	>0.2	0.146	
ppm Water	ppm	ASTM D6304*	>2000	468	
Glycol	%	ASTM D7922*		0.0	
Soot %	%	ASTM D7844*	>3	0	
Nitration	Abs/cm	ASTM D7624*	>20	10.1	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	
Silt	scalar	Visual*	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.2	.2 %	
Sodium	ppm	ASTM D5185(m)		2	

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

	Emulsified Water	scalar	Visual*	>0.2	<u>^</u> .2%	
	Sodium	ppm	ASTM D5185(m)		2	
	Boron	ppm	ASTM D5185(m)		1	
	Barium	ppm	ASTM D5185(m)		0	
	Molybdenum	ppm	ASTM D5185(m)		59	
	Manganese	ppm	ASTM D5185(m)		0	
	Magnesium	ppm	ASTM D5185(m)		987	
	Calcium	ppm	ASTM D5185(m)		1119	
	Phosphorus	ppm	ASTM D5185(m)		1034	
	Zinc	ppm	ASTM D5185(m)		1222	
	Sulfur	ppm	ASTM D5185(m)		2733	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	17.3	
	Visc @ 100°C	cSt	ASTM D7279(m)		11.1	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0278845 Lab Number : 02616523

Received **Tested** Unique Number : 5733633

: 20 Feb 2024 Diagnosed

: 22 Feb 2024 : 22 Feb 2024 - Kevin Marson

CON-DRAIN LTD. 30 FLORAL PARKWAY CONCORD, ON CA L4K 4R1 Contact: B BAXTER

Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel, Visual) To discuss this sample report, contact Customer Service at 1-800-268-2131.

B.BAXTER@CONDRAIN.COM T:

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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